

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/027968

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/11 A61K31/713 A61K38/17 G01N33/574 C12Q1/68
C07K14/47 A01K67/027 C07K16/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols):

IPC 7 C12N A61K G01N C12Q C07K A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE, Sequence Search

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|------------------------|
| X | WO 03/039443 A (DEUTSCHES KREBSFORSCH ; HAERLACH TORSTEN (DE); EILS ROLAND (DE); KERN) 15 May 2003 (2003-05-15) pages 17-48,921,984,1541,1071,1278 ----- | 1,3, 5-10, 12-15 |
| A | BAGHERI-FAM STEFAN ET AL: "Comparative genomics of the SOX9 region in human and Fugu rubripes: Conservation of short regulatory sequence elements within large intergenic regions" GENOMICS, vol. 78, no. 1-2, November 2001 (2001-11), pages 73-82, XP002312982 ISSN: 0888-7543 the whole document ----- -/-- | 1-33 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

28 January 2005

Date of mailing of the international search report

02. 03. 2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | WO 01/12662 A (INCYTE GENOMICS INC ; PATTERSON CHANDRA (US); AZIMZAI YALDA (US); YUE) 22 February 2001 (2001-02-22) the whole document | 1-33 |
| A | ----- MCMANUS M T ET AL: "Gene silencing in mammals by small interfering RNAs" NATURE REVIEWS GENETICS, MACMILLAN MAGAZINES, GB, vol. 3, October 2002 (2002-10), pages 737-747, XP002973403 the whole document | 1-33 |
| A | ----- FRASER A G ET AL: "Functional genomic analysis of C. Elegans chromosome I by systematic RNA interference" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 408, 16 November 2000 (2000-11-16), pages 325-330, XP002953443 ISSN: 0028-0836 the whole document | 1-33 |
| A | ----- WALHOUT ALBERTHA J M ET AL: "Integrating interactome, phenome, and transcriptome mapping data for the C. elegans germline." CURRENT BIOLOGY : CB. 19 NOV 2002, vol. 12, no. 22, 19 November 2002 (2002-11-19), pages 1952-1958, XP002312983 ISSN: 0960-9822 the whole document | 1-33 |
| | ----- | |

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 5-8,11-15 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/027968

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| WO 03039443 | A | 15-05-2003 | EP 1308522 A1 | 07-05-2003 |
| | | | WO 03039443 A2 | 15-05-2003 |
| | | | EP 1470247 A2 | 27-10-2004 |
| ----- | | | | |
| WO 0112662 | A | 22-02-2001 | AU 6906800 A | 13-03-2001 |
| | | | CA 2382015 A1 | 22-02-2001 |
| | | | EP 1206543 A2 | 22-05-2002 |
| | | | JP 2003527089 T | 16-09-2003 |
| | | | WO 0112662 A2 | 22-02-2001 |
| | | | US 2002182671 A1 | 05-12-2002 |
| | | | US 2003124649 A1 | 03-07-2003 |
| ----- | | | | |